

# Human Integrin alpha V beta 8 (ITGAV&ITGB8) Heterodimer Protein

Cat. No. ITG-HM4V8

## Description

<b>Source</b>	Recombinant Human Integrin alpha V beta 8 (ITGAV&ITGB8) Heterodimer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Phe31-Val992(ITGAV) acidic tail & Glu43-Arg684(ITGB8) basic tail.
<b>Accession</b>	P06756-1(ITGAV)&P26012-1(ITGB8)
<b>Molecular Weight</b>	The protein has a predicted MW of 114 kDa (ITGAV) and 76 kDa (ITGB8). Due to glycosylation, the protein migrates to 90-150 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

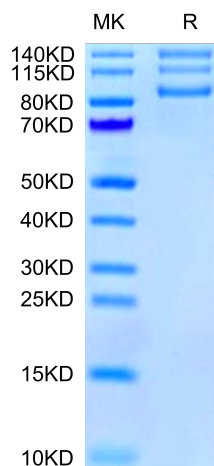
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Deletions of the genes encoding the integrin  $\alpha V\beta 8$  (Itgav, Itgb8) have been shown to result in abnormal vascular development in the CNS, including prenatal and perinatal hemorrhage. Other work has indicated that a major function of this integrin in vivo is to promote TGF $\beta$  activation.

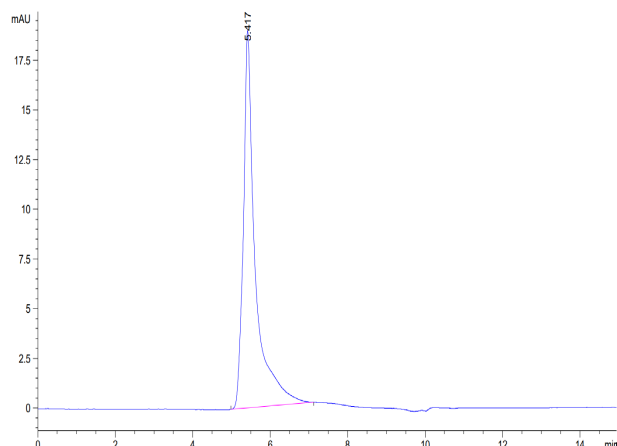
## Assay Data

### Tris-Bis PAGE



Human ITGAV&ITGB8 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



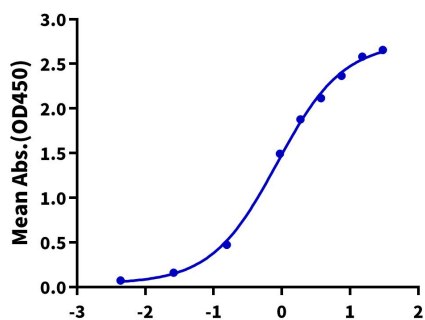
The purity of Human ITGAV&ITGB8 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Human ITGAV&ITGB8, His Tag ELISA**

0.5µg Human ITGAV&ITGB8, His Tag Per Well



Immobilized Human ITGAV&ITGB8, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human Latent TGF beta 1, His Tag with the EC50 of 0.85ug/ml determined by ELISA.

Log Biotinylated Human Latent TGF beta 1, His Tag Conc.(µg/ml)